Proposed Adhesion Models Based on the X-ray Studies of N- and E-Cadherins

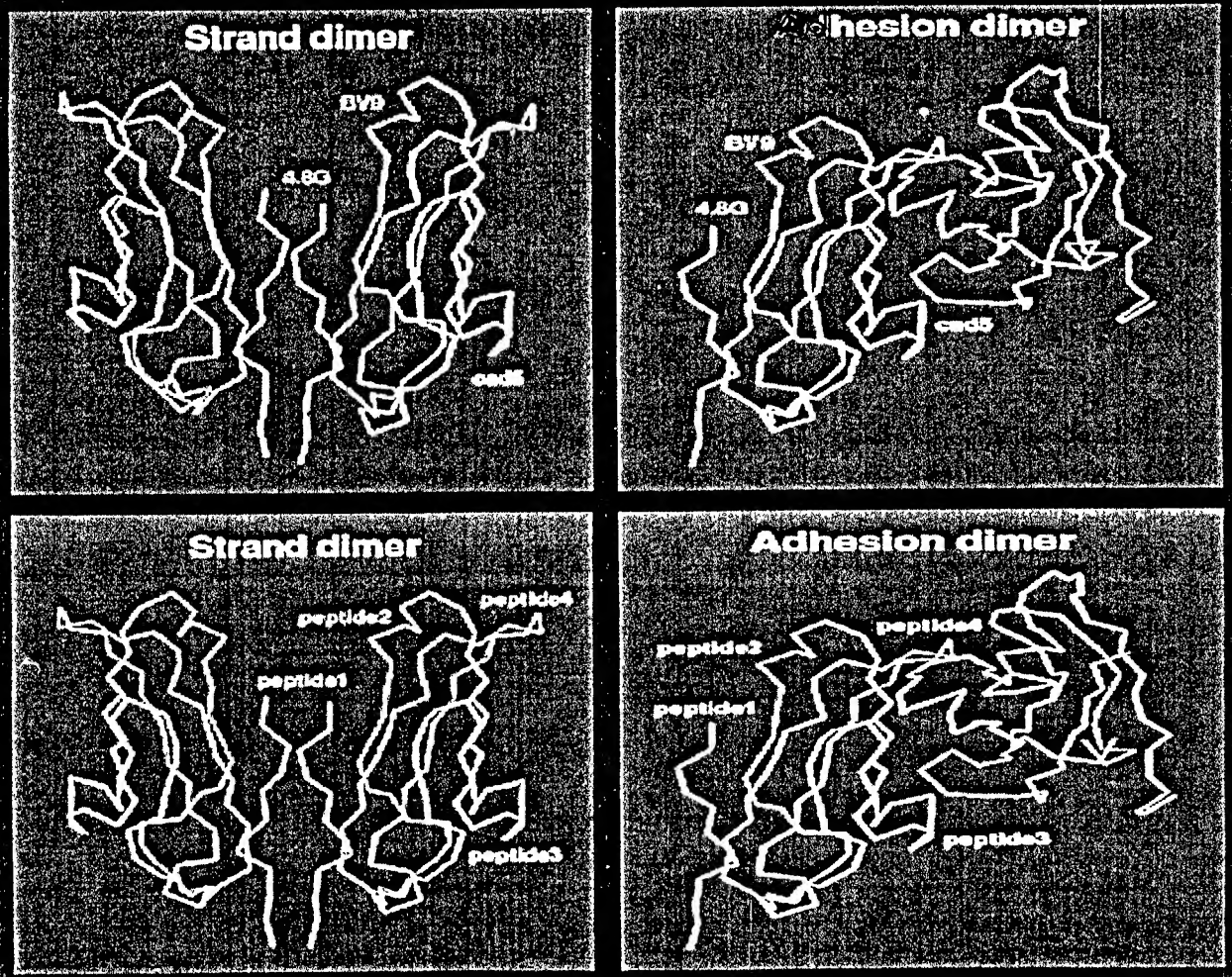


FIG. 1

Sequence Alignment of ECD1 of Four Classic Cadherins

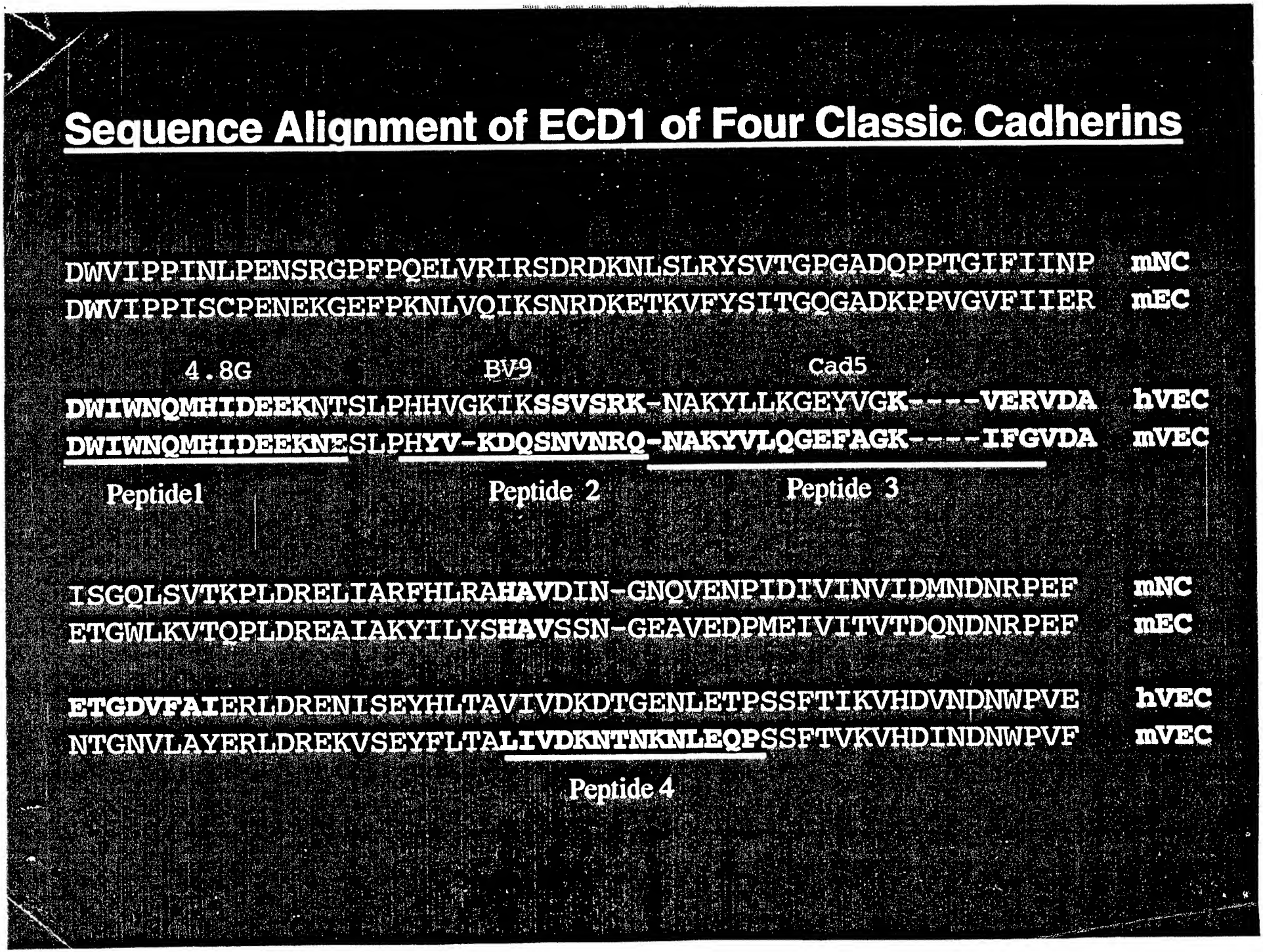


FIG. 2

Effects of the anti-ECD1 Peptides Antibodies on Paracellular Permeability of H5V cells

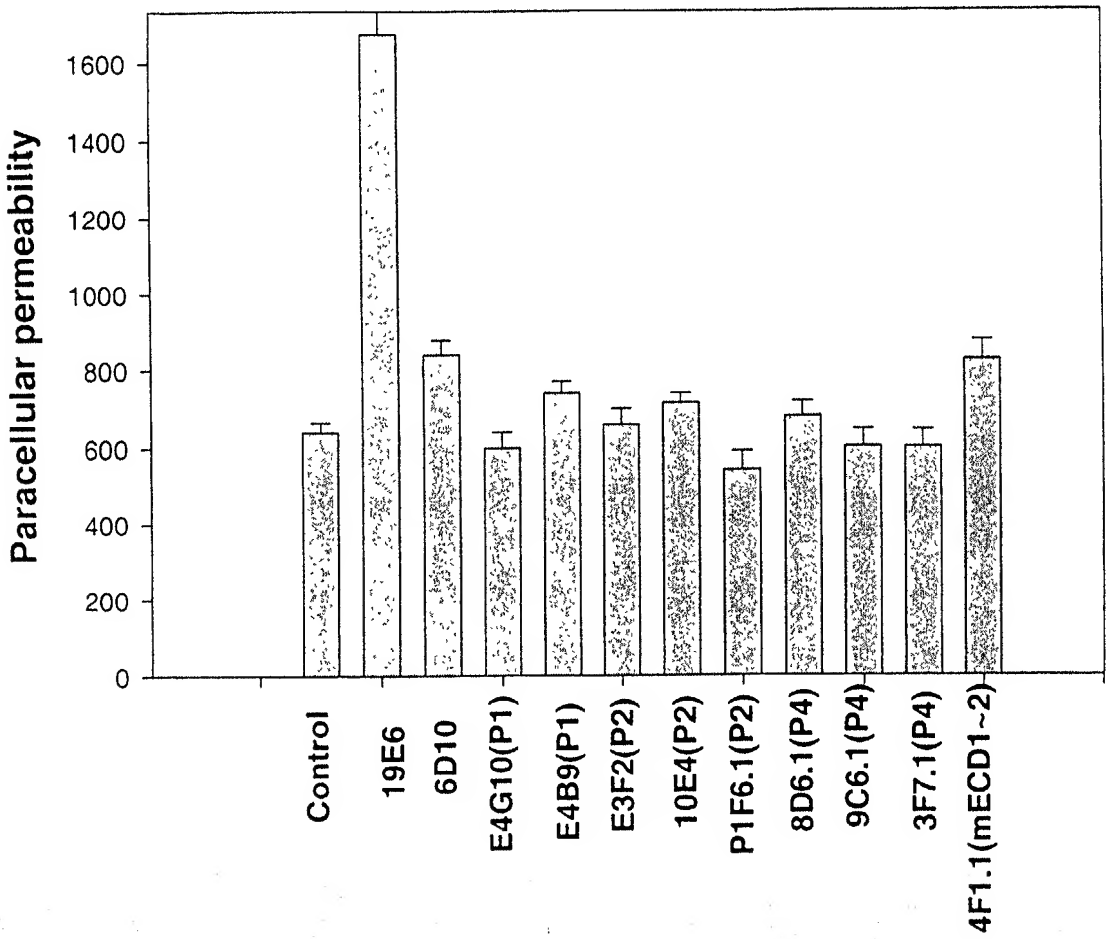


Fig. 3

The Effects of Three Anti-murine VE-cadherin mAb on Vascular Permeability in Mice

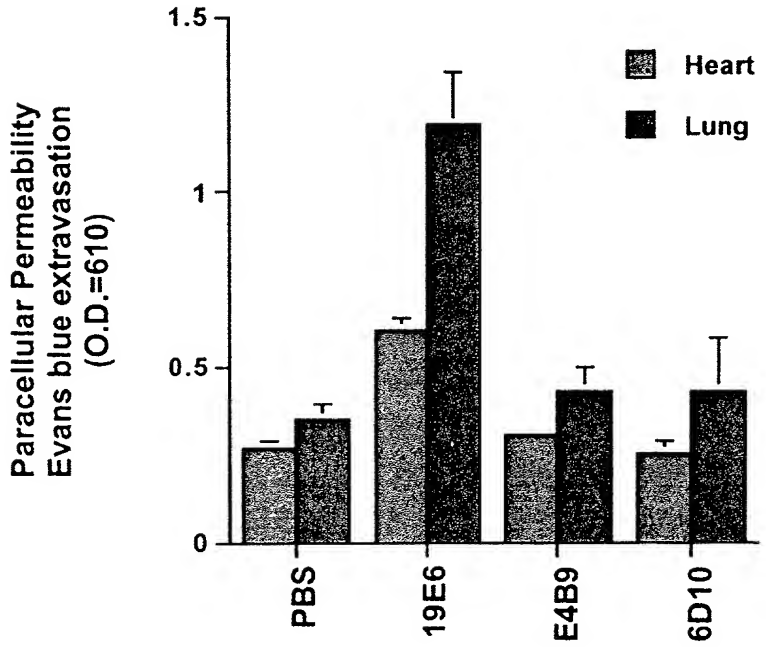


Fig 4

Effect of anti-VE-cadherin mAb 19E6 on b-FGF-induced neovascularization in mouse corneal micropocket assay

Rat IgG1

19E6

FIG 5A

Quantification of the Effects of Three Anti-murine VE-cadherin mAb on Inhibiting Angiogenesis *in vivo* (mouse Corneal micropacket assay)

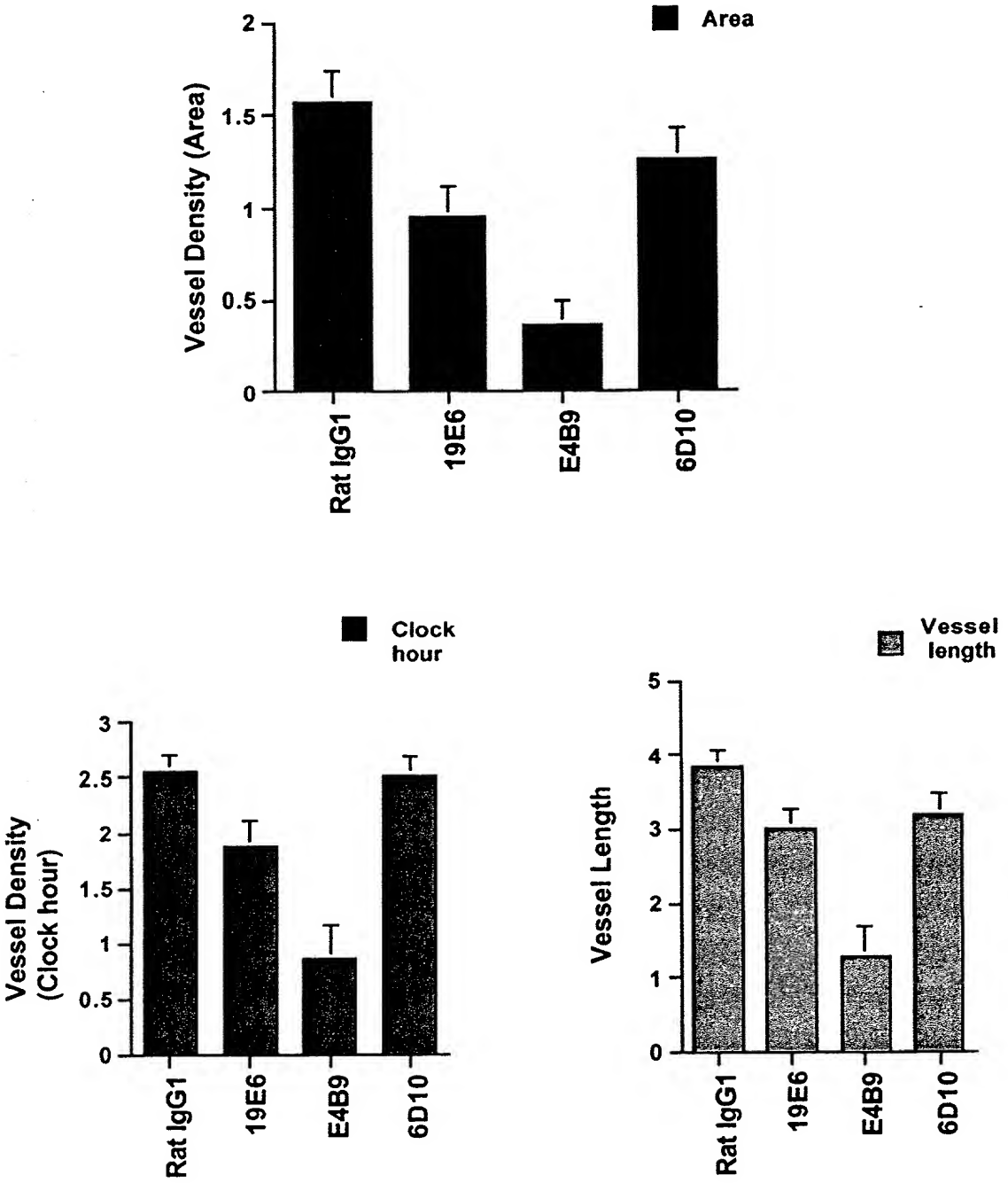


Fig. 5B

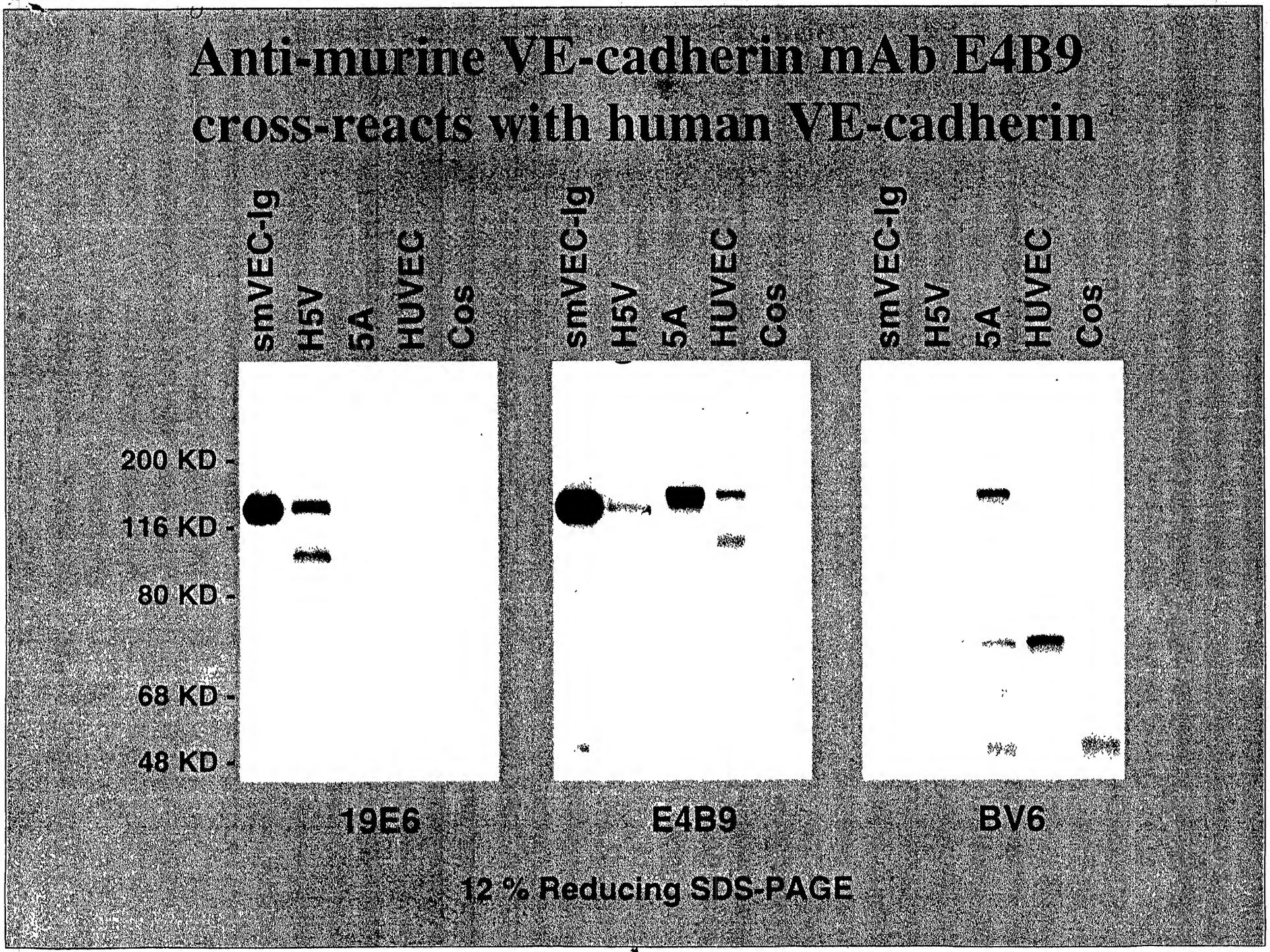
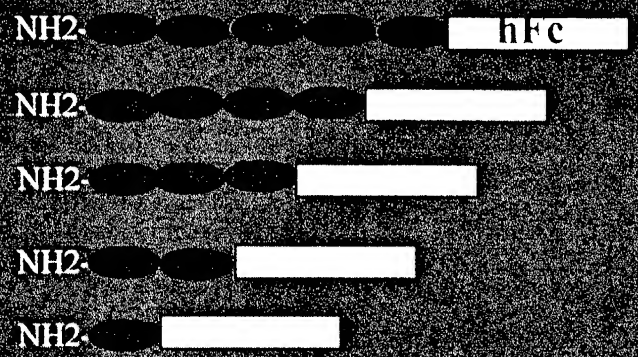

Anti-murine VE-cadherin mAb E4B9
cross-reacts with human VE-cadherin
smVEC-Ig
H5V
5A
HUVEC
Cos
200 KD -
116 KD -
80 KD -
68 KD -
48 KD -
19E6
E4B9
BV6
12 % Reducing SDS-PAGE

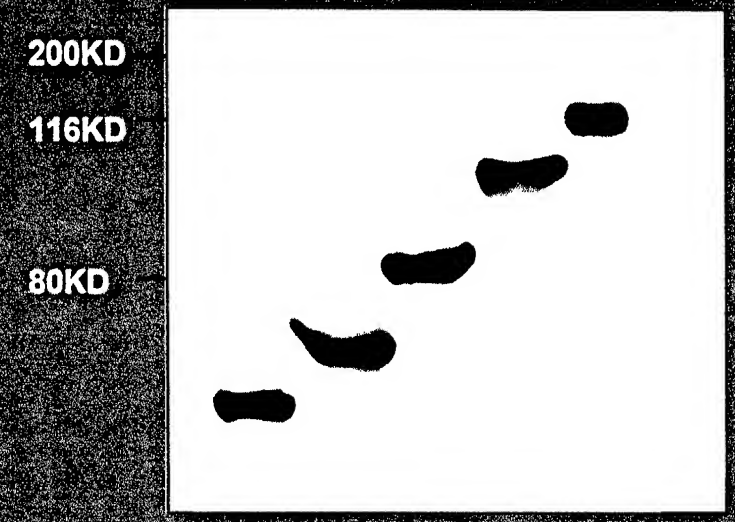
FIG. 6

Epitope Mapping for mAb19E6 and 6D10 to Specific VEC Domains

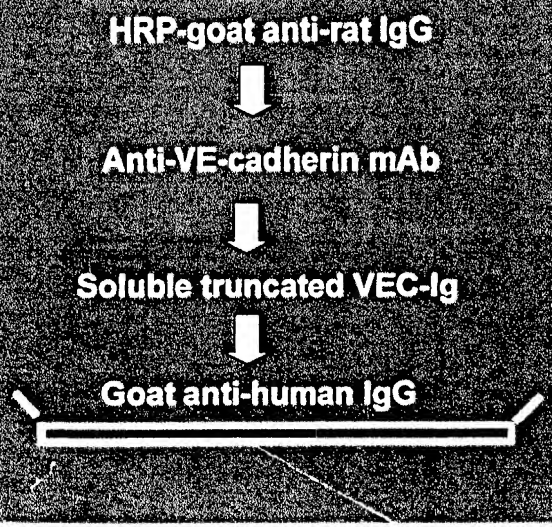
Serially truncated smVEC-Ig



10% Reducing SDS-PAGE



ELISA Design



	Reactivity		
mAb	19E6	6D10	DC101
hIgG	-	-	-
smD1-Ig	+	-	-
smD1~2-Ig	+	-	-
smD1~3-Ig	+	+/-	-
smD1~4-Ig	+	+	-
smD1~5-Ig	+	+	-

FIG 7

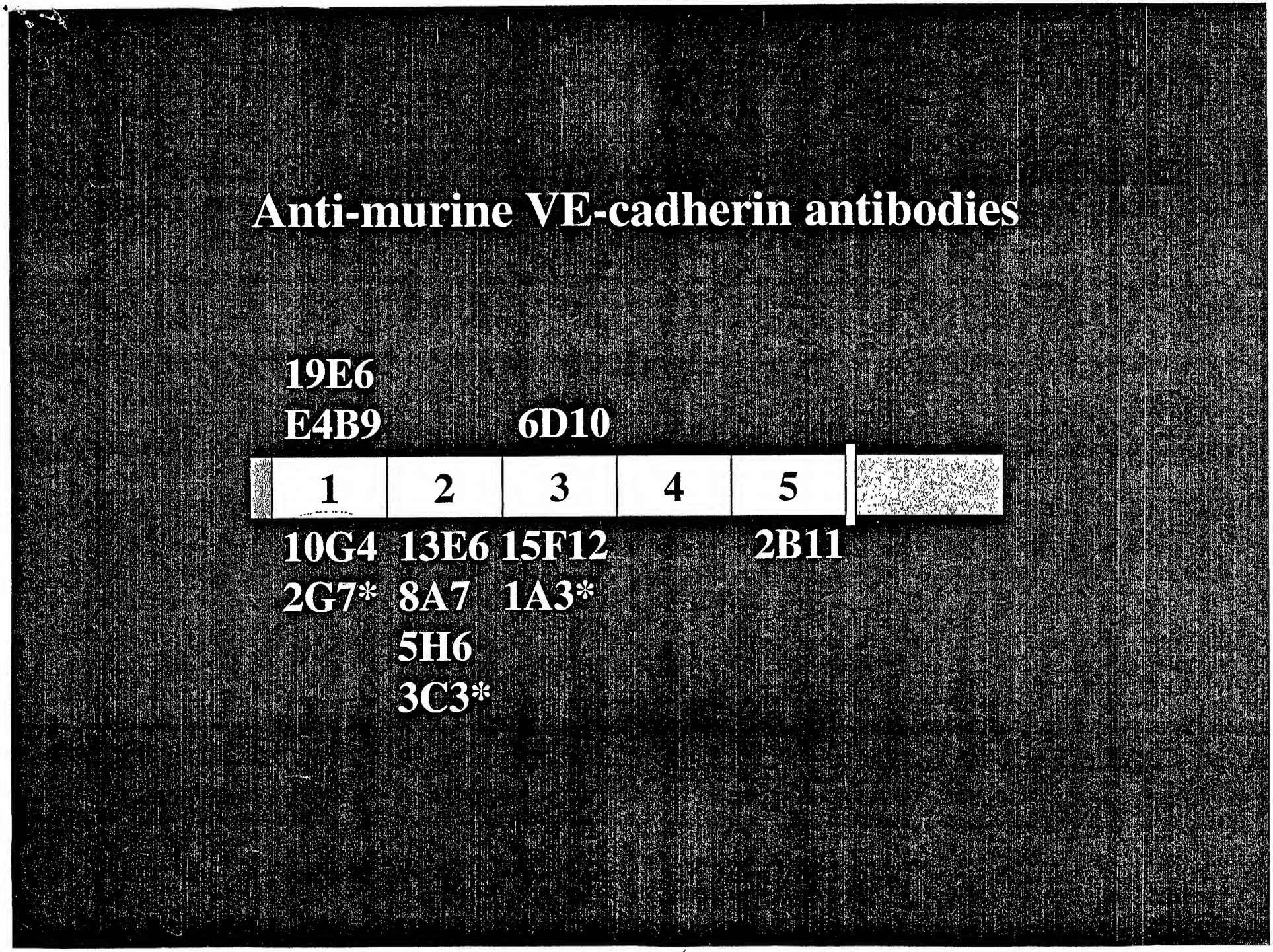

Anti-murine VE-cadherin antibodies
19E6
E4B9
6D10
1
2
3
4
5
10G4
2G7*
13E6
8A7
5H6
3C3*
15F12
1A3*
2B11

FIG. 8

Epitope Mapping

DWIWNQMHIDEEKNESLPHYVKDQSNVNRQNAKYVLQGEFAGKIFGVDAN

E4B9

19E6, 10G4 (Cad5)

TGNVLAYERLDREKVSEYFLTALIVDKNTNKNLEQPSSFTVKVHDINDNWPVF

Murine ECD1

FIG 9